



07-22-04 IFW & RCE 2814

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Application No.: 09/903,059 Confirmation No.: 9375  
First Named Inventor: Bulucea, Constantin Filing Date: 10 July 2001  
Group Art Unit: 2814 Examiner: Farhani, D.  
Atty. Docket No.: NS-4971 US  
Title: Gate-Enhanced Junction Varactor  
Assignee(s): National Semiconductor Corporation

Mountain View, California  
21 July 2004

**MAIL STOP RCE  
COMMISSIONER FOR PATENTS  
PO Box 1450  
Alexandria, Virginia 22313-1450**

**REQUEST FOR CONTINUED EXAMINATION  
UNDER 37 CFR 1.114**

Sir:

This is a Request for Continued Examination ("RCE") of the above patent application under 37 CFR 1.114.

Please enter or/and consider each following document which is enclosed or was previously submitted:

1. Preliminary Amendment dated 21 July 2004.

The RCE fee required under 37 CFR 1.17(e) is authorized in an accompanying transmittal letter.

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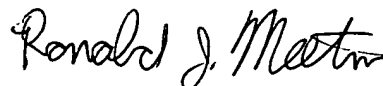
07/23/2004 HAL 111 00000079 502641 09903059  
01 FC:1801 770.00 DA

Please telephone Attorney for Applicant(s) at 650-964-9767 if there are any questions.

**EXPRESS MAIL LABEL NO.:**

**EV 337 115 985 US**

Respectfully submitted,



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21 July 2004

MAINTENANCE STOP RCE  
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Assignee(s): National Semiconductor Corporation

Sir:

Transmitted herewith are the following documents for the above patent application:

1. Return Receipt Postcard;
2. This Transmittal Letter (in duplicate);
3. Preliminary Amendment (32 pp.); and
4. RCE (2 pp.).

☒ The fee has been calculated as shown below:

**CLAIMS AS AMENDED**

|  | Claims Remaining<br><u>After Amendment</u>   |       | Highest No.<br>Previously<br><u>Paid For</u> |   | Present<br><u>Extra</u> |   | <u>Rate</u> | <u>Additional Fee</u> |
|--|--|-------|--|---|-------------------------|---|-------------|-----------------------|
| Total Claims   | 106  | Minus | 72   | = | 34                      | x | \$18.00     | \$ 612.00             |
| Independent<br>Claims                                  | 9  | Minus | 7  | = | 2                       | x | \$86.00     | \$ 172.00             |
| <input type="checkbox"/>                               | Fee of \$280 for the first filing of one or more multiple dependent claims   |       |  |   |                         |   |             | \$                    |
| <input type="checkbox"/>                               | Fee for Request for Extension of Time (      month(s)).  |       |  |   |                         |   |             | \$                    |
| <input checked="" type="checkbox"/>                    | Fee for Request for Continued Examination  |       |  |   |                         |   |             | \$ 770.00             |
| <b><u>Total additional fee for this Amendment:</u></b> |  |       |  |   |                         |   |             | <b>\$ 1,554.00</b>    |
| <input checked="" type="checkbox"/>                    | Please charge Deposit Account No. 502641 in the amount of  |       |  |   |                         |   |             | <b>\$ 1,554.00</b>    |
| <input checked="" type="checkbox"/>                    | Conditional Petition for Extension of Time: If an extension of time is required, the Commissioner is authorized to deduct the necessary fee from Deposit Account No. 502641. |       |  |   |                         |   |             |                       |
| <input checked="" type="checkbox"/>                    | Also, charge any additional fees required and credit any overpayment to Deposit Account No. 502641.  |       |  |   |                         |   |             |                       |

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**EV 337 115 985 US**

Respectfully submitted,

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**PRELIMINARY AMENDMENT**

Sir:

Responsive to the Office Action mailed 21 April 2004, please amend the above patent application in the following manner.

**IN THE CLAIMS**

Amend Claims 17, 23, 33, 34, 41, 42, 54, 62, and 64 and add Claims 89 - 122 so that the claims are as follows:

1 - 16. (Canceled)

17. (Currently amended) A structure comprising a varactor which comprises:  
a plate region and a body region of a semiconductor body, the body region being of a first conductivity type, the plate region being of a second conductivity type opposite to the first conductivity type, the plate and body regions meeting each other to form a p-n junction;

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07/23/2004 HAL111

00000079 502641 09903059

02 FC:1202  
03 FC:1201

12.00 DA  
172.00 DA